

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P733933

Luminaire Tested: **24FCZ2-30-B2750-W2D-CP375-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P733933  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272053)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 24FCZ2-30-B2750-W2D-CP375-3500K  
Description: 2X4 3000 LUMEN SEALED CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT  
AND RIBBED LENS, WITH, CP375 BOTTOM LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

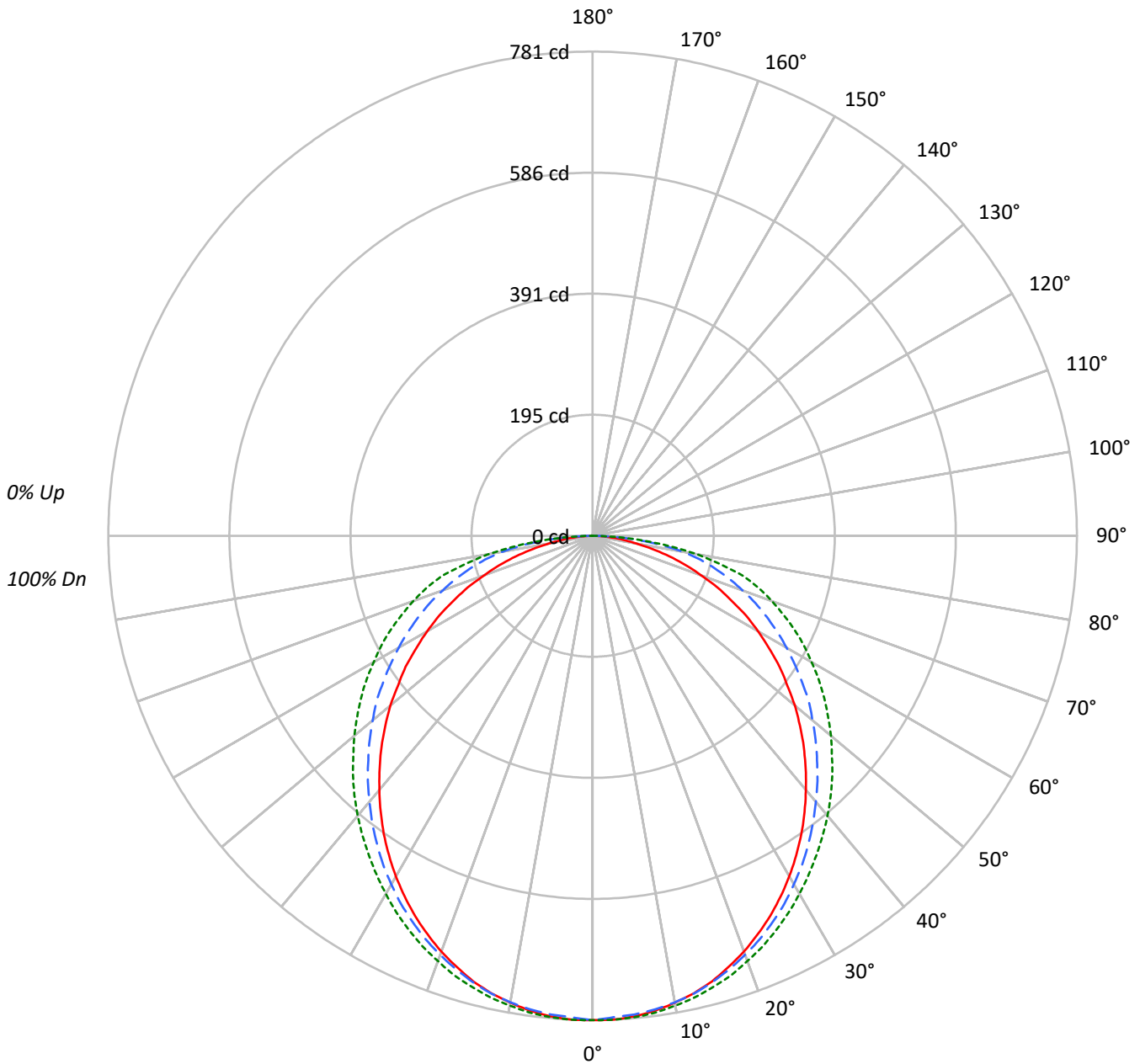
Lumens per Lamp: N/A  
Luminaire Lumens: 2326.9 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82																			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56																			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36																			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25																			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1103	1103	1103
5°	1102	1098	1105
10°	1096	1095	1103
15°	1087	1089	1101
20°	1072	1080	1096
25°	1055	1070	1092
30°	1034	1058	1087
35°	1012	1045	1084
40°	986	1032	1086
45°	961	1022	1091
50°	934	1016	1102
55°	906	1015	1122
60°	870	1019	1151
65°	825	1035	1201
70°	766	1061	1269
75°	699	1114	1376
80°	575	1199	1376
85°	439	1106	1182



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.9	3.2
10°-20°	211.0	9.1
20°-30°	317.4	13.6
30°-40°	380.4	16.3
40°-50°	396.4	17.0
50°-60°	368.8	15.9
60°-70°	303.8	13.1
70°-80°	206.9	8.9
80°-90°	68.3	2.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	602.3	25.9
0°-40°	982.7	42.2
0°-60°	1748.0	75.1
0°-90°	2326.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2326.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	781	781	781	781	781	
5°	778	778	775	779	780	74
15°	744	745	746	753	753	210
25°	677	680	687	699	701	312
35°	587	594	607	623	629	367
45°	482	492	512	537	547	371
55°	368	380	412	445	456	328
65°	247	268	310	346	360	245
75°	128	157	204	241	252	135
85°	27	53	68	73	73	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	781.3	781.3	781.3	781.3	781.3
2.5°	781.3	781.3	777.4	781.3	781.3
5°	778.1	778.1	775.0	779.0	779.7
7.5°	772.7	773.5	770.5	775.0	775.9
10°	764.9	765.8	764.2	768.9	769.6
12.5°	755.7	756.4	756.4	761.8	762.7
15°	744.0	744.8	745.6	752.6	753.3
17.5°	729.3	731.6	733.1	741.7	743.2
20°	713.7	716.1	719.2	728.4	730.0
22.5°	695.9	698.9	704.4	714.5	716.8
25°	677.2	680.3	687.3	698.9	701.3
27.5°	656.3	660.9	669.5	681.9	685.0
30°	634.5	639.1	649.2	662.4	667.1
32.5°	611.2	617.4	629.0	643.8	648.5
35°	587.1	594.1	606.6	622.8	629.0
37.5°	561.5	569.3	584.0	601.9	609.6
40°	535.1	544.4	559.9	580.9	589.4
42.5°	508.6	517.3	536.6	559.2	568.5
45°	481.5	491.6	511.8	537.4	546.7
47.5°	453.5	463.6	487.7	514.9	523.4
50°	425.6	435.7	462.9	491.6	501.7
52.5°	395.3	408.5	439.6	468.3	478.4
55°	368.1	380.5	412.4	445.0	455.9
57.5°	337.1	351.8	386.8	420.9	432.5
60°	308.3	323.9	361.1	396.0	407.7
62.5°	278.8	295.9	335.5	371.2	384.4
65°	246.9	267.9	309.8	346.3	359.5
67.5°	218.2	240.0	284.3	321.5	333.1
70°	185.6	212.0	257.0	294.4	307.6
72.5°	157.6	184.0	231.4	267.9	281.1
75°	128.1	156.9	204.2	240.8	252.4
77.5°	98.7	130.5	177.8	205.8	209.7
80°	70.7	104.1	147.5	163.9	169.3
82.5°	49.7	80.0	108.8	119.6	122.7
85°	27.1	52.8	68.3	73.0	73.0
87.5°	11.6	22.6	27.1	28.0	28.7
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)